

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Viginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. ESEC-P171US-D1 8931 10/723,685 11/26/2003 Matthias Krieger EXAMINER 7590 12/29/2004 David B. Ritchie NICOLAS, FREDERICK C Thelen Reid & Priest LLP ART UNIT PAPER NUMBER P.O. Box 640640 San Jose, CA 95164-0640 3754

DATE MAILED: 12/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary 10/723,685 KRIEGER ET AL.	,	Application No.	Applicant(s)	
Examiner Frederick C. Nicolas The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Examinous of time may be available under the provisions of 37 CFR 1.138(a). In ne event, however, may a reply be timely filled If NO period for reply is periodial device, the maintenant statistical principle of the periodic of reply is periodic above, the maintenant statistical principle of the periodic of reply is periodic above, the maintenant statistical principle of the communication. Any reply received by the Official stem than there more than the maining date of this communication, even if timely filled, may reduce any searce patent term adjustment. See 37 CFR 1.704(b). Status The MAILING DATE of THIS COMMUNICATION. The Secondary of the statistical principle of the communication of the communication of the communication of the statistical principle of the statistical principle of the communication. The MAILING DATE of the statistical principle of the statistical principle of the communication of the communication of the communication. The MAILING DATE of THIS COMMUNICATION. The MAILING DATE of THIS COMMUNICATION. The Mailing Date of the main of the statistical principle of the statistical principle. The Mailing Date of the main of the statistical principle of the statistical principle of the main of the communication. The Mailing Date of the principle of the pr				
Frederick C. Nicolas 3754 The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. If the period for reply specified above is less the thirty (30) days, a reply which be statutory minimum of birty (30) days will be considered timely. If the period for reply specified above is less then thirty (30) days, a reply which be statutory minimum of birty (30) days will be considered timely. If the period for reply specified above is less then thirty (30) days, a reply which the statutory minimum of birty (30) days will be considered timely. If the period for reply a specified above is less then thirty (30) days, a reply which the statutory minimum of birty (30) days will be considered timely. If the period for reply a specified above is less then thirty and the statutory minimum of birty (30) days will be considered timely. If the period for reply a specified above is less then then then then then then then then	Office Action Summary			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Eatherises of term may be available under the provided of the provided provided provided provided provided provided provided provided provided the provided pro				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of times may be available under the provisions of 37 CFR 1.135(a). In an event, however, may a reply be timely filed - Extensions of times may be available under the provisions of 37 CFR 1.135(a). In an event, however, may a reply be timely filed - Extensions of times may be available under the provisions of 37 CFR 1.135(b). In an event, however, may a reply be timely filed - If the period for reply is available under the provisions of 37 CFR 1.135(b). In a event, however, may a reply be timely filed - If the period for reply self-device was the self-deviced by the office and the provisions of the self-deviced will expire \$3.0 (8) MONTHS from the mailing date of this communication. - If the period for reply self-device was the self-deviced will expire \$3.0 (8) MONTHS from the mailing date of this communication. - Any reply received by the official official than three mailing date of this communication, even if timely filed, may recise easy. - Status - If the specification is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. - Disposition of Claims - Application of Claims - Application of Claims - Application of Claims - Application is a subject to restriction and/or election requirement. - Application Papers - Priority under 35 U.S.C. § 119 - The paper filed on 26 October 2004 is/are: a) accepted or b) objected to by the Examiner. - Application Papers - Application request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). - Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). - The oth or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. - Priority under 35 U.S.C. § 119 - Application from the Internationa	The MAILING DATE of this communication app	1		
THE MAILING DATE OF THIS COMMUNICATION. Edentions of time may be evaluate under the proteins of 37 CPR 1.13(6). In no event, however, may a reply be timely filed other DX (6) MONTHS from the mailing date of this communication. **THO period to reply inspired between the mailing date of this communication.** **Fallow to reply visible to reply visible above, the mailinum statistic printed with pay the walt vesture (30,46) MONTHS from the mailing date of this communication. **Fallow to reply visible to reply visible that the three mailing date of this communication, even if timely (fired, may reduce any vesture) that the printed payment was the printed visible to reply visible, and the three mailing date of this communication, even if timely (fired, may reduce any vesture) that the printed visible to reply visible to the printed visible	Period for Reply			
1) Responsive to communication(s) filed on 26 October 2004. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 21-40 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 21-40 is/are rejected. 7) Claim(s) is/are allowed. 6) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 26 October 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received in Application No. 10/184,728. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(e) 1) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(e) (PTO-1449 or PTO/SB/08) 5) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(e) (PTO-1449 or PTO/SB/08)	 THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any 			
2a) This action is FINAL. 2b) This action is non-final. 3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 21-40 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5] Claim(s) is/are allowed. 6] Claim(s) is/are objected to. 8] Claim(s) is/are objected to. 8] Claim(s) is/are objected to. 8] The specification is objected to by the Examiner. 10] The specification is objected to by the Examiner. 4pplication Papers 9] The specification is objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received in Application No. 10/184,728. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(e) 1) Notice of Praftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/S8/08)	Status			
2a) This action is FINAL. 2b) This action is non-final. 3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 21-40 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5] Claim(s) is/are allowed. 6] Claim(s) is/are objected to. 8] Claim(s) is/are objected to. 8] Claim(s) is/are objected to. 8] The specification is objected to by the Examiner. 10] The specification is objected to by the Examiner. 4pplication Papers 9] The specification is objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received in Application No. 10/184,728. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(e) 1) Notice of Praftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/S8/08)	1) Responsive to communication(s) filed on 26 October 2004.			
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)				
Aly Claim(s) 21-40 is/are pending in the application. 4a) Of the above claim(s)	<u></u>			
4) Claim(s) 21-40 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are rejected. 7) Claim(s) is/are rejected to. 8) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 26 October 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 10/184,728. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) PoleNotice of Informal Patent Application (PTO-152)	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.			
4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to . 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 26 October 2004 is/are: a) ☑ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. ☑ Certified copies of the priority documents have been received in Application No. 10/184,728. 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) □ Notice of References Cited (PTO-892) 2) □ Notice of Oraftsperson's Patent Drawing Review (PTO-948) 3) □ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) □ Notice of Informal Patent Application (PTO-152)	Disposition of Claims			
4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to . 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 26 October 2004 is/are: a) ☑ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. ☑ Certified copies of the priority documents have been received in Application No. 10/184,728. 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) □ Notice of References Cited (PTO-892) 2) □ Notice of Oraftsperson's Patent Drawing Review (PTO-948) 3) □ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) □ Notice of Informal Patent Application (PTO-152)	4) Claim(s) 21-40 is/are pending in the application			
5) Claim(s) is/are allowed. 6) Claim(s) 21-40 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) is/are objected to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 26 October 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 10/184,728. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)				
o Claim(s) 21-40 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 26 October 2004 is/are: a) ☑ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. ☑ Certified copies of the priority documents have been received in Application No. 10/184,728. 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) □ Notice of References Cited (PTO-892) □ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) □ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) □ Notice of Informal Patent Application (PTO-152)				
Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 26 October 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 10/184,728. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)				
Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 26 October 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☒ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☒ Certified copies of the priority documents have been received in Application No. 10/184,728. 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☐ Notice of References Cited (PTO-992) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/S8/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	7) Claim(s) is/are objected to.			
9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 26 October 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☒ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☒ Certified copies of the priority documents have been received in Application No. 10/184.728. 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1 ☐ Notice of References Cited (PTO-892) 2 ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3 ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5 ☐ Notice of Informal Patent Application (PTO-152)	8) Claim(s) are subject to restriction and/or election requirement.			
10) The drawing(s) filed on 26 October 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 10/184,728. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 3) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)	Application Papers			
10) The drawing(s) filed on 26 October 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 10/184,728. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 3) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)	9) The specification is objected to by the Examiner.			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 10/184,728. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)				
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No. 10/184,728. 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☐ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
Priority under 35 U.S.C. § 119 12) △ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) △ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. △ Certified copies of the priority documents have been received in Application No. 10/184,728. 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) □ Notice of References Cited (PTO-892) 2) □ Notice of Braftsperson's Patent Drawing Review (PTO-948) 3) □ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 10/184,728. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.			
a) \(\text{ All b} \) \(\text{ Some * c} \) \(\text{ None of:} \) 1. \(\text{ Certified copies of the priority documents have been received.} \) 2. \(\text{ Certified copies of the priority documents have been received in Application No. 10/184,728.} \) 3. \(\text{ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).} * See the attached detailed Office action for a list of the certified copies not received.} * Attachment(s) 1) \(\text{ Notice of References Cited (PTO-892)} \) 2) \(\text{ Notice of Draftsperson's Patent Drawing Review (PTO-948)} \) 3) \(\text{ Interview Summary (PTO-413)} \) Paper No(s)/Mail Date. \(\text{ Date.} \) 5) \(\text{ Notice of Informal Patent Application (PTO-152)} \)	Priority under 35 U.S.C. § 119			
a) \(\text{ All b} \) \(\text{ Some * c} \) \(\text{ None of:} \) 1. \(\text{ Certified copies of the priority documents have been received.} \) 2. \(\text{ Certified copies of the priority documents have been received in Application No. 10/184,728.} \) 3. \(\text{ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).} * See the attached detailed Office action for a list of the certified copies not received.} * Attachment(s) 1) \(\text{ Notice of References Cited (PTO-892)} \) 2) \(\text{ Notice of Draftsperson's Patent Drawing Review (PTO-948)} \) 3) \(\text{ Interview Summary (PTO-413)} \) Paper No(s)/Mail Date. \(\text{ Date.} \) 5) \(\text{ Notice of Informal Patent Application (PTO-152)} \)	12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
1. ☐ Certified copies of the priority documents have been received. 2. ☑ Certified copies of the priority documents have been received in Application No. 10/184,728. 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☐ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	a)⊠ All b)□ Some * c)□ None of:			
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)	1. Certified copies of the priority documents have been received.			
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) * See the attached detailed Office action for a list of the certified copies not received. 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)	2. Certified copies of the priority documents have been received in Application No. 10/184,728.			
* See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) * See the attached detailed Office action for a list of the certified copies not received. 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)	3. Copies of the certified copies of the priority documents have been received in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)	* See the attached detailed Office action for a list	of the certified copies not receive	ed.	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)	Attachment(s)			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)	1) Notice of References Cited (PTO-892)			
, ==				
		· —		

Art Unit: 3754

DETAILED ACTION

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

 Claims 21-31 are rejected under the judicially created doctrine of obviousnesstype double patenting as being unpatentable over claims 1-13 of U.S. Patent No. 6705845 in view of Myers 3,471,079.

Krieger et al. in U.S. Patent No. 6,705,845, a device for the metered delivery of a viscous liquid as seen in Figure 1, which comprises a first and second piston (2,3), a

Art Unit: 3754

pump body (1) comprising a first sleeve (28) and having a first drill hole accommodating the pistons as well as two further drill holes which run orthogonally to the first drill hole and one end of which opens out into the first drill hole and the other end of which opens out into an intake chamber or a discharge chamber in the pump body, and a drive mechanism for moving the pistons back and forth such that a width of a slit formed between the pistons varies during the back and forth movement (col. 6, II. 50-67 onto col. 7, II. 1-32), the pump body further including two blind holes, wherein ends of the drill hole of the first sleeve open out into the blind holes (col. 7, II. 33-35), the first sleeve and the pump body consist of one piece of material (col. 8, II. 21-25). Krieger et al. lack the first and second piston including the first sleeve consisting of a selected one of hard metal. Myers teaches the use of a first (58) and second piston (62) including a sleeve of a pump body made of metal (col. 6, II. 57-70).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize Myers' teaching onto the device of Krieger et al. by having the first and second piston including the sleeve of the pump body of Krieger et al. to be made of metal as taught by Myers in (col. 6, II. 57-70), in order to avoid contamination of the product in the pump.

With respect to claim 27, the claimed subject matter "wherein a radius of the first drill hole is manufactured within a tolerance of ± 0.5 mm and a radius of the pistons with a tolerance of ± 0.15 mm, as well as the claimed subject matter in claims 28-31.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the radius of the drill hole of Krieger et al. and Myers to

Art Unit: 3754

be manufactured within a tolerance as specified in claims 27-31, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. As per MPEP 2144.05

3. Claims 21-31 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-13 of U.S. Patent No. 6705845.

Krieger et al. in U.S. Patent No. 6,705,845, a device for the metered delivery of a viscous liquid as seen in Figure 1, which comprises a first and second piston (2,3), a pump body (1) comprising a first sleeve (28) and having a first drill hole accommodating the pistons as well as two further drill holes which run orthogonally to the first drill hole and one end of which opens out into the first drill hole and the other end of which opens out into an intake chamber or a discharge chamber in the pump body, and a drive mechanism for moving the pistons back and forth such that a width of a slit formed between the pistons varies during the back and forth movement (col. 6, II. 50-67 onto col. 7, II. 1-32), the pump body further including two blind holes, wherein ends of the drill hole of the first sleeve open out into the blind holes (col. 7, II. 33-35), the first sleeve and the pump body consist of one piece of material (col. 8, II. 21-25). Krieger et al. lack the first and second piston including the first sleeve consisting of a selected one of hard metal.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the first and second piston including the first sleeve of

Art Unit: 3754

Krieger et al. to be made of one of hard metal, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

With respect to claim 27, the claimed subject matter "wherein a radius of the first drill hole is manufactured within a tolerance of ± 0.5 mm and a radius of the pistons with a tolerance of ± 0.15 mm, as well as the claimed subject matter in claims 28-31.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the radius of the drill hole of Krieger et al. to be manufactured within a tolerance as specified in claims 27-31, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. As per MPEP 2144.05

4. Claims 32-40 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-13 of U.S. Patent No. 6705845 in view of Myers 3,471,079 as applied to claims 21-29 above and further in view of Shim et al. 6,332,924.

Krieger et al.-Myers in combination have taught all the features of the claimed invention except that a writing head for the application of adhesive onto a substrate which is to be equipped with a semiconductor chip. Shim et al. show a device for the metered of a viscous liquid (col. 1, II. 3-6), where the device is being used on a writing head for the application of adhesive onto a substrate which is to be equipped with a semiconductor chip as seen in Figure 2.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Krieger et al. and Myers by utilizing the outlet nozzle of Shim et al. onto the outlet of Krieger et al. and Myers, in order to provide a product dispensing device which can be apply the product on a silicon wafer in a metered amount and under a controlled pressure to thereby form a uniform thickness of the product film on the wafer as taught by Shim et al. in (col. 2, II. 11-15).

5. Claims 32-40 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-13 of U.S. Patent No. 6705845 as applied to claims 21-29 above and further in view of Shim et al. 6,332,924.

Krieger et al. have taught all the features of the claimed invention except that a writing head for the application of adhesive onto a substrate which is to be equipped with a semiconductor chip. Shim et al. show a device for the metered of a viscous liquid (col. 1, II. 3-6), where the device is being used on a writing head for the application of adhesive onto a substrate which is to be equipped with a semiconductor chip as seen in Figure 2.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Krieger et al. by utilizing the outlet nozzle of Shim et al. onto the outlet of Krieger et al., in order to provide a product dispensing device which can be apply the product on a silicon wafer in a metered amount and under a controlled pressure to thereby form a uniform thickness of the product film on the wafer as taught by Shim et al. in (col. 2, II. 11-15).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 21,23,27,29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Loomans 3,695,788 in view of Myers 3,471,079.

Loomans discloses a device for the metered delivery of a viscous liquid as seen in Figure 1, which comprises a first and second piston (21,25), a pump body (14) comprising a first sleeve and having a first drill hole (30) accommodating the pistons as well as two further drill holes (10a,12a) which run orthogonally to the first drill hole and one end of which opens out into the first drill hole and the other end of which opens out into an intake chamber or a discharge chamber in the pump body, and a drive mechanism (c) for moving the pistons back and forth such that a width of a slit formed between the pistons varies during the back and forth movement (col. 2, II. 49-68 onto col. 3, II. 1-36). Loomans lacks the first and second piston including the first sleeve consisting of a selected one of hard metal. Myers teaches the use of a first (58) and second piston (62) including a sleeve of a pump body made of metal (col. 6, II. 57-70).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize Myers' teaching onto Loomans' device, by having the first and second piston including the sleeve of the pump body of Loomans to be made of

Art Unit: 3754

metal as taught by Myers in (col. 6, II. 57-70), in order to avoid contamination of the product in the pump.

With respect to claim 27, the claimed subject matter "wherein a radius of the first drill hole is manufactured within a tolerance of ± 0.5 mm and a radius of the pistons with a tolerance of ± 0.15 mm, as well as the claimed subject matter in claim 29.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the radius of the drill hole of Loomans and Myers to be manufactured within a tolerance as specified in claims 27-31, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. As per MPEP 2144.05

8. Claims 32,34,38 and 40, are rejected under 35 U.S.C. 103(a) as being unpatentable over Loomans 3,695,788 in view of Myers 3,471,079 as applied to claim 21 above and further in view of Shim et al. 6,332,924.

Loomans-Myers in combination have taught all the features of the claimed invention except that a writing head for the application of adhesive onto a substrate which is to be equipped with a semiconductor chip. Shim et al. show a device for the metered of a viscous liquid (col. 1, II. 3-6), where the device is being used on a writing head for the application of adhesive onto a substrate which is to be equipped with a semiconductor chip as seen in Figure 2.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Loomans and Myers by utilizing the outlet nozzle of Shim et al. onto the outlet of Loomans and Myers, in order to provide a

product dispensing device which can be apply the product on a silicon wafer in a metered amount and under a controlled pressure to thereby form a uniform thickness of the product film on the wafer as taught by Shim et al. in (col. 2, II. 11-15).

Response to Arguments

9. Applicant's arguments filed 10/26/2004 have been fully considered but are moot in view of the new ground(s) of rejection. Further, the signed terminal disclaimer submitted on 10/26/2004 was disapproved because the attorney is not of record.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frederick C. Nicolas whose telephone number is (571)-272-4931. The examiner can normally be reached on Monday - Friday from 9:00 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Y Mar, can be reached on 571-272-4906. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

Art Unit: 3754

Page 10

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FΝ

December 27, 2004

Frederick C. Nicolas Patent Examiner

Art Unit 3754